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S/137/60/000/010/040/040

A006/A001

Electrochemical Deposition of Co-Tungsten Alloy and its Properties

higher electrolyte temperature a gradual increase of the tungsten percentage in the alloy takes place. The current efficiency increases noticeably. It is established that the dispersing capacity of the electrolyte for the deposition of the cobalt-tungsten alloy exceeds by 10 - 15% that of the Ni-electrolyte. The authors studied the dependence of microhardness of the deposited cobalt-tungsten alloy on various factors of electrolysis. Investigations of the wear resistance of cobalt-tungsten alloy coatings in pair with Ni and in pair with the same alloy showed that it was higher in the latter case than during wearing in pair with Ni. It was stated that the cobalt-tungsten deposit was sufficiently corrosion-resistant in SO₂ and NO₂ atmosphere. The composition of the electrolyte for the deposition of an alloy with 35% tungsten is given. X

N.I.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

KAUGLOVA, Yekaterina Georgiyevna, inzh.; VYACHESLAVOV, Petr Mikhaylovich,
dots., kand. khim. nauk; SMOTKINA, B.R., inzh., retsenzent;
GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M.,
red.; ONISHCHENKO, R.N., red. izd-va; BARDINA, A.A., tekhn. red.

[Control of electroplating baths and coatings] Kontrol' gal'va-
nicheskikh vann i pokrytii. Izd.2., dop. i perer. Moskva,
Mashgis, 1961. 146 p. (Bibliotekha gal'vanotekhnika, no.12)
(MIRA 15:4)

(Electroplating—Equipment and supplies)

FEDOT'YEV, N.P.; VIACHESLAVOV, P.M.; KRUGLOVA, Ye.G.; FONTEYNES, Ye.A.

Technology of eelectrolytic Sn-Cd deposition and its corrosion
resistance in near tropical conditions. Trudy LTI no.53:72-81
'61. (MIRA 14:3)

(Tin plating) (Tin-cadium alloys)
(Corrosion-resistant materials)

NIKANDROVA, L. I.; GERASIMOVA, N. I.; IVANOVA, L. V.; KONDRATOVICH, G. A.;
KRUGLOVA, Ye. G., red.; ERLIKH, Ye. Ya., tekhn. red.

[Analysis of electrolytes and solutions for electroplates and
chemical coatings] Analiz elektrolitov i rastvorov; dlia gal'-
vanicheskikh i khimicheskikh pokrytii. Leningrad, Goskhimizdat,
1963. 310 p. (MIRA 16:3)
(Electrolytes--Analysis) (Electroplating)

SEMIKOZOV, G.S.; KRUGLOVA, Ye.G.; KALINKIN, I.P.

Determination of microquantities of copper with lead diethyldithiocarbamate in zinc solutions and electrolytes for galvanization. Izv. vys.ucheb.zav.; khim. i khim.tekh. 7 no.2:194-197 '64.

(MIRA 18:4)

1. Kafedra analiticheskoy khimii Leningradskogo tekhnologicheskogo instituta im. Lensoвета.

KRULOVA, Ye.I.; GUSEV, L.A., redaktor; VEYNTPAUB, A.B., tekhnicheskii redaktor.

[My work as a telegrapher; an account of a senior telegrapher in a district communication office] Moia rabota na telegrafe; rasskaz starshei telegrafistki raionnoi kontory svyazi. Moskva, Gos. izd-vo lit-ry po voprosam svyazi i radio, 1955. 22 p.
(Telegraphers) (MLRA 9:5)

Ye

✓ The effect of the degree of field fertilization on the mineral composition of the cotton plant. E. K. Kruglova. AG
Sotsial. Sel'sk. Khos. Uzbekistana 1955, No. 6, 28-34;
Referat. Zhur., Biol. 1955, No. 939.—Data are presented of the mineral compn. of leaves, stems, seed pods, seeds, and fibers of cotton plants grown at the Tashkent agricultural station in 1951, without and with various degrees of fertilization. The different plant constituents were ashed, and detas. were made of P, S, Si, Ca, Mg, K, Na, Fe, Al, Mn, B, Cu, and Zn. Richest in minerals were the leaves, followed by the seed pods, stems, seeds, and the fibers. Ca was the most abundant element in the vegetative parts, and K was the most abundant in the fruit bearing parts. Among the microelements Mn predominated in all the plant organs. In the seeds the second most abundant element was Zn, and in the leaves B, which was present in all organs except the fibers. More than 40% of the B of the leaves was in the form of fixed nonmobile organoboric compds. Differences in the degree and type of soil fertilization had no practical effect on the results of the mineral content of the various organs of the cotton plant. There was a slight reduction in the P and K content of plants grown in non-fertilized soil.
 H. S. Levine

KRUGLOVA, E. K.

Microelements in soils of cotton fields in Middle Asia.
 E. K. Kruglova (Central-Asia Polytech. Inst., Tashkent).
Phosphorus 1956, No. 1, 39-49. -- Results are given for
 studies on the content, forms, and transformations of Mn in as
 well as on the content of Cu, Zn, Co, and Ni in the cotton soils.
 With a lowering of the pH to 4.0-4.4 the sol. Mn content in-
 creases in sierozem, meadow, and meadow-bog soils. At pH
 values below 4.0 the sol. of Mn decreases and Fe goes into
 soln. at pH 3.0 in sierozem, meadow soil at 3.8, and meadow-
 bog at 4.2. In sierozem the MnO_2 prevails, 60-93% of the
 total. In the meadow and meadow-bog soils the MnO_2 con-
 tent is 40-70% of the total. Silicates of Mn in sierozem vary
 from 0 to 40% of the total and in the meadow and meadow-
 bog, 20-60%. The total content of Mn in these soils varies
 from 0.06 to 0.13%, decreasing in quantity with depth.
 Data are also given on the content of Cu, Ni, Co, and Zn in
 the soils mentioned, and the quantity of Mn in superphos-
 phate, phosphorite, local rocks, clay, and some earthy ma-
 terial used as fertilizer. J. S. Ioffe

KRUGLOVA, Ye.K.

Applying boron fertilizers to cotton. Uzb.biol.zhur. no.5:55-61
'59. (MIRA 13:4)

1. Sredneaziatskiy politekhnicheskii institut.
(COTTON--FERTILIZERS AND MANURES) (PLANTS, EFFECT OF BORON ON)

KRUGLOVA, Ya. K.

Molybdenum in soils, cotton plants and irrigation and ground
waters of the Golodnaya Steppe. Pochvovedenie no.6:82-88
Ja '59. (MIRA 12:9)

1. Sredneaziatskiy politekhnicheskiy institut, g.Tashkent.
(Golodnaya Steppe--Minerals in soil)
(Molybdenum)

KRUGLOVA, Ye.K.

Boron content of the Golodnaya Steppe soils, cotton, irrigation and
ground waters. Pochvovedenie no.9:81-87 S '60. (MIRA 13:9)

1. Sredneasiatskiy politekhnicheskiy institut.
(Golodnaya Steppe--Soils--Boron content)

SUCHKOV, S.P.; ZIMINA, N.I., kand. sel'khoz. nauk; LAZAREV, S.F., kand. sel'khoz. nauk; KRUGLOVA, Ya.K., kand. sel'khoz. nauk; BESEDIN, P.N., kand. sel'khoz. nauk, red.; KENZER, A.P., red.; SOROKINA, Z.I., tekhn. red.

[Soils of the Golodnaya Steppe; their agronomic characteristics]
Pochvy Golodnoi Stepi; ikh agronomicheskaya kharakteristika.
[By] S.P.Suchkov i dr. /Tashkent, Redaktsionno-izdatel'skii otdel
UzASKhN. 1961. 173 p. (MIRA 16:1)
(Golodnaya Steppe—Soils)

KRUGLOVA, Ye.K.

Copper and its forms in soils of the Golodnaya Steppe and in
cotton. Pochvovedenie no.5:83-90 My '62. (MIRA 15:6)
(Golodnaya Steppe--Soils--Copper content) (Cotton)

GAYNUDINOVA, F.Kh.; KRUGLOVA, Ye.K.

Copper and its forms in irrigated Fergana Valley soils. Uzb.
khim.sbur. 6 no.6:23-27 '62. (MIRA 16:2)

1. Institut pozhvovedeniya AN UzSSR.
(Fergana--Soil chemistry) (Copper--Analysis)

KRUGLOVA, Ye.K.

Zinc and its forms in the virgin and long-irrigated soils
of the Golodnaya Steppe and in cotton plants. Pochvovedenie
no.7:75-79 J1 '64. (MIRA 17:8)

1. Tashkentskiy politekhnicheskiy institut.

KRUGLOVA, Ye.K.; MUSAILOV, O.B.

Photocolorimetric determination of cobalt in soils and plants using
 β -nitroso- α -naphthol. Uzb. khim. zhur. 8 no.6:11-15 '64. (MIRA 18:4)

1. Tashkentskiy politekhnicheskiy institut.

BRUSKIN, Mikhail Il'ich; KRUGLOVA, Ye.M., red.; TIKHONOVA, Ye.A., tekhn.
red.

[Statistics of the merchant marine] Statistika morskogo transporta. Moskva, Izd-vo "Morskoi transport," 1961. 180 p.
(MIRA 14:10)
(Merchant marine—Statistics)

SHER, Aleksandra Aleksandrovna; VARAKSIN, Nikolay Georgiyevich;
KRUGLOVA, Ye.M., red.; USANOVA, M.B., tekhn. red.

[Wages for sea harbor workers] Oplata truda rabotnikov morskikh
portov. Moskva, Izd-vo "Morskoi transport," 1962. 135 p.
(MIRA 16:2)

(Wages--Longshoremen) (Wages--Cargo handling)

KOSTYUKOV, Aleksandr Aleksandrovich, prof., doktor tekhn. nauk;
KRUGLOVA, Ye.M., red.; LAVRENOVA, N.B., tekhn. red.

[Theory of ship construction] Teoriia korablia. Moskva, Morskoi transport, 1962. 318 p. (MIRA 15:7)
(Naval architecture)

BARAYEV, Viktor Georgiyevich, doktor tekhn. nauk; ERUGLOVA, Ye.N.,
red.

[World shipping and sea transportation in capitalist
countries; notes for the development of a long-term
program for the expansion of the U.S.S.R. merchant marine]
Mirnoye sudokhodstvo i morskoi transport kapitalistiches-
kikh stran; zametki k razrabotke perspektivnogo plana raz-
vitiia morskogo flota SSSR. Moskva, Izd-vo "Transport,"
1964. 49 p. (MIRA 17:8)

KORYAKIN, Sergey Fedorovich, kand. ekon. nauk, dots.; Iosif L'vovich, kand. ekon. nauk, dots.; Irinimal
uchastiye: EULINSKIY, Yu.F., st. prep.; SHRAMSHTEYN,
Ye.A., dots., retsenzent; CHERKASOV-TSIBIZOV, A.A., st.
prepod., retsenzent; MILYUKOV, M.A., st. prepod.,
retsenzent; KOZHAROV, N.D., kand. ekon. nauk, retsenzent;
AKAL'SKIY, I.I., kand. ekon. nauk, retsenzent; KEMER,
B.A., inzh., retsenzent; PETRUCHIK, V.A., kand. ekon. nauk,
red.; GUBERMAN R.L., kand. ekon. nauk, red.; RUDIN, Ye.D.,
kand. ekon. nauk, red.; DUBCHAK, V.Kh., inzh., red.;
MARTIROSOV, A.Ye., inzh., red.; PLYUSHKIN, V.A., inzh.,
red.; BELOV, M.I., doktor geogr. nauk, red.; SINITSYN, M.T.,
inzh., red.; KOLESNIKOV, V.G., kand. tekhn. nauk, red.;
ZAMAKHOVSKIYA, A.G., kand. ekon. nauk, red.; KUZ'MIN, T.P.,
inzh., red.; NEMCHIKOV, V.I., kand. tekhn. nauk, red.;
GEKHTEARG, Ye.A., inzh., red.; FILIPPOV, K.D., red.;
KRUGLOVA, Ye.L., red.

[Economics of the merchant marine] Ekonomika morskogo trans-
porta. Izd.2., perer. i dop. Moskva, Transport, 1964.
527 p. (MIRA 18:1)

VISHNEPOL'SKIY, S.A.; KURNISTROV, R.M.; ZABELIN, V.G.; KACHAVA,
Ye.M., red.

[Chartering of merchant ships] Frakht na morskikh sudov.
Moskva, Transport, 1964. 185 p. (MIRA 18:2)

TSYRKIN, Mikhail Isaakovich; KRUGLOVA, Ye.M., red.

[Automatic regulation and control of marine diesel engines]
Avtomaticheskoe regulirovanie i upravlenie sudovymi dizel'-
nymi ustanovkami. Moskva, Transport, 1964. 256 p.
(MIRA 18:3)

BAKAYEV, Viktor Georgiyevich, doktor tekhn. nauk; IODIN, Ye.D.,
kand. ekon. nauk, nauchn. red.; KRUGLOVA, Ye.M., red.

[Operation of the merchant marine] Eksploatatsia morskogo flota. Moskva, Transport, 1965. 559 p.
(MIRA 18:12)

1. Ministr Morskogo flota SSSR (for Bakayev).

BUNIN, K.V., prof.; BURASHNIKOVA, N.M.; VERISOVA, M.A.; GUTOP, O.G.;
KRUGLOVA, Ye.V.; LAGOVSKAYA, N.A.; PISTSOVA, H.Y.

Some complications after smallpox vaccination. Sov. med. 25 no.5:
73-80 My '61. (MIRA 14:6)

1. Iz Infektsionnoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy
vrach - zasluzhennyy vrach RSFSR N.G.Zaleskver, nauchnyy rukovoditel' -
prof. K.V.Bunin).

(SMALLPOX)

KRUGLOVA, Ye. V. A-1

Be

Thermal dissociation of higher sulphides of tin.
J. I. Gerasimov, Ye. V. Kruglova, and N. D. Roshin.
Dokl. Akad. Nauk SSSR, 1957, 7, 1620-1624.—
SnS₂ dissociates at > 600° to form SnS, which gives
SnS₂ at 700° and SnS at 800°. The so-called inter-
mediate sulphides are in reality solid solutions of the
above three sulphides. R. T.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

103000 HAT ONV 601

001101010

FROM SOURCE

001101010

L 02298-67 CWT(m)/T FDN/DJ/GD

ACC NR: AT6015201 (A, N)

SOURCE CODE: UR/0000/66/000/000/0099/0103

AUTHOR: Starikova, L. V.; Bleyes, G. S.; Kruglova, Ye. T.

ORG: none

61
B+1

TITLE: Method for evaluating the thermo-oxidative stability of aviation oils at elevated temperatures

SOURCE: Metody otsenki ekspluatatsionnykh svoystv reaktivnykh topliv i smazochnykh materialov (Methods for the performance evaluation of jet propellants and lubricants). Moscow, Izd-vo Mashinostroyeniye, 1966, 99-103

TOPIC TAGS: lubricating oil, lubricant property, lubricant viscosity, heat resistance, vaporization, high temperature oxidation, aircraft lubricant

ABSTRACT: A laboratory method for evaluating the performance properties of petroleum oils at elevated temperatures was developed and examined. The method is an adaptation of VTI GOST 981-55, wherein conditions for oxidizing the oil were changed to make the test applicable to high temperature testing. Oxidations were run in the apparatus shown in Fig. 2 under temperatures controlled by thermostat shown in Fig. 1.

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UDC: 662.753.32:629.13.001.4

02298-67

ACC NR: AT6015201

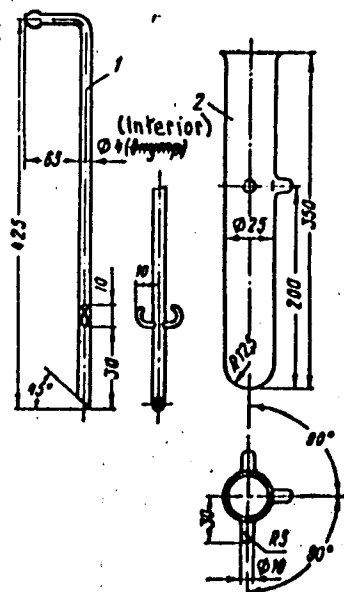


Fig. 1. Diagram of air electric thermostat:
 1.--mantle, 2--agitator shaft, 3--cross
 pieces for mounting 4, 4--rotating cylinder,
 5--agitator blades, 6--electric motor,
 7--cover, 8--apparatus for oxidations,
 9--electric heater, 10--thermocouple,
 11--mercury thermometer.

Card 2/4

L 02298-67

ACC NR: AT6015201

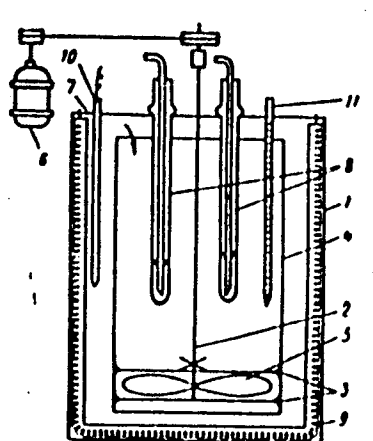


Fig. 2. Apparatus for oxidizing oil:
1--tube for feeding air to oxidize the oil,
2--reaction vessel.

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02298-67

ACC NR: AT6015201

Determinations were made of volatility, change in viscosity, benzene-insoluble residues, acid number and metal corrosion as indices of resistance of the oil to thermal oxidation. Satisfactory reproducibility among the values of these indices was obtained in the tests run. Orig. art. has: 1 table and 2 figures.

SUB CODE: 11/ SUBM DATE: 10Dec65

Card 4 / 4

vmb

KRUGLOVA, E.V., LUKASHEVICH-DUVANOVA, Yu.T.

"Sulfides in Steel Deoxidized by Aluminum,"
lecture given at the Fourth Conference on Steelmaking, AA. Baikov Institute of
Metallurgy, Mosocow, July 1-6, 1957

KRUGLOVA, YE. V.

НЕМЕТАЛЛИЧЕСКИЕ ВКЛЮЧЕНИЯ СТАЛИ

С.И.Павлов Г.Ф.Жуковская	Очистка поверхности стали от углеродистых включений
С.Е.Васильев А.М.Семин	Влияние метода раскисления стали в вакуумной печи на процесс ее декарбонизации.
Д.М.Вуцман А.М.Мельников	Влияние скорости на образование пор в структуре слитой стали.
С.Т.Ростовцев Д.М.Туровцев В.М.Васильевский К.С.Прохоров	Оценки неметаллических включений в электрошлаковой расплавленной стали.
В.А.Ураков Ю.Т.Лунинский Д.М.Мельников	Включения в электрошлаковой стали, содержащей титан.
Ю.Т.Лунинский Д.М.Мельников О.В.Павлов В.В.Круглова	Включения в электрошлаковой стали, содержащей марганец и титан.
А.М.Васильев	Особенности раскисления в вакуумной электрошлаковой стали.
С.Г.Васильев П.М.Павлов	Разработка и исследование новой технологии выжигания неметаллических включений.
В.П.Королев П.В.Алексеев	Влияние пути раскиснения расплавленной стали.

report submitted for the 5th Physical Chemical Conference on Steel Production, Moscow-- 30 Jan 1959.

KRUGLOVA, Z.D.

Work practices in equatorial-dipole sounding. Razved. i prom.
gnofiz. no.29:59-61 '59. (MIRA 13:1)
(Electric prospecting)

BULATOVA, Z.I.; VOYTSEL', Z.A.; GORBOVETS, A.N.; IVANOVA, Ye.A.; KAZ'MINA, T.A.; KISEL'MAN, E.N.; KLIMKO, S.A.; KLIMOVA, I.G.; KOZYREVA, V.F.; KORNEVA, F.R.; KOSTITSINA, R.P.; KRUGLOVA, Z.M.; STRIZHOVA, A.I.; MARKOVA, L.G.; TARASOVA, A.S.; USHAKOVA, M.V.; FILIPPOVA, Ye.A., ved.red.; TROFIMOV, A.V., tekhn.red.

[Mesozoic and Cenozoic stratigraphy of the West Siberian Lowland]
Stratigrafiia mezozoiia i kainozoiia Zapadno-Sibirskoi nizmennosti.
Moskva, Gos.nauchno-tekhn.isd-vo nef. i gorno-toplivnoi lit-ry,
1957. 147 p. (MIRA 12:2)

1. Gosudarstvennyy soyuznyy Zapadno-Sibirskiy nefterasvedochnyy
trest.

(Siberia, Western--Geology, Stratigraphic)

KRUGLYAK, Yu.A.; UTMEN, D.R.[Whitman, D.R.]; SHUSTOROVICH, Ye.M.,
otv. red.

[Tables of quantum chemistry integrals] Tablitsy integralov kvantovoi khimii. Moskva, Vychislitel'nyi tsentr.
Vol.1. 1963. 439 p. (MIRA 18:5)

1. Khar'kovskiy gosudarstvennyy universitet, Kafedra fizicheskoy khimii Instituta fizicheskoy khimii AN Ukr.SSR (for Kruglyak).

LANTOV, V.I.; KRUGLYAK, Yu.A.; TOBYGO, K.B.; SHEMER, V.V.

Correlation between adjacent amino acid radicals in proteins.
Dokl. AN SSSR 160 no.5:1191-1193 F '65.

(MIRA 18:2)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN UkrSSR.
Submitted June 4, 1964.

KRUGLOV, Yu. V., Cand Biol Sci (diss) -- "The role of denitrifying bacteria of the genus *Pseudomonas fluorescens* in the root feeding of plants". Moscow, 1960. 15 pp (Acad Sci USSR, Inst of Microbiol), 250 copies (KL, No 15, 1960, 133)

KRUGLOV, Yu.V.

Role of micro-organisms in plant nutrition. Trudy Vses. inst. sel'khoz.
mikrobiol. 16:31-38 '60. (MIRA 13:9)
(Rhizosphere microbiology) (Bacteria, Denitrifying)

SAMOYLOV, I.I.; KOZLOVA, N.V.; RUSINOVA, I.P.; KRUGLOV, Yu.V.

Effect of bacterization on the activity of organomineral mixtures.
Trudy Vses. inst. sel'khoz. mikrobiol. 16:116-122 '60. (MIRA 13:9)
(Fertilizers and manures) (Soil inoculation)

SANOYLOV, I.I.; KOZLOVA, N.V.; RUSINOVA, I.P.; KRUGLOV, Yu.V.

Significance of different amounts of lime and the duration of its
interaction with peat in estimating the biological activity of
lime and peat-lime fertilizers. Trudy Vses. inst. sel'khoz. mikrobiol.
16:123-135 '60. (MIRA 13:9)

(Liming of soils)

(Peat)

KRUGLOV, Z.M.

KRUGLOV, Z.M.: "Results of studying the state of health of the population in Turkov and Khodorov Rayons, Drogobych Oblast". L'vov, 1955. L'vov State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences).

SO: Knizhnaya letopis' No 44, 29 October 1955. Moscow.

KRUGLOV, Z.M., kand.med.nauk; BURIKHIN, T.N., dotsent

Twenty years of the Soviet public health service in the western
provinces of the Ukraine. Vrach.delo no.9:967-969 S '59.

(MIRA 13:2)

1. Kafedra organizatsii zdavookhraneniya (zaveduyushchiy - dotsent
S.Z. Tkachenko) L'vovskogo meditsinskogo instituta.
(UKRAINE, WESTERN--PUBLIC HEALTH)

KRUGLOVENKO, V.I.

Vibrators for unloading sugar beets from freight cars. Sakh.prom.
35 no.7:45-46 JI '61. (MIRA 14:7)

1. Kurskiy filial Giprosozhara.
(Sugar beets--Transportation) (Vibrators)

Abstract : Lengthy review is presented of the book, by N. V. Shmulyan and O. V. Krugloyoy, entitled, "Industrial Capacities of Mechanical Plants. Calculation and Rational Utilization of such Industrial Capacities in Machine Construction Plants," published in Kiev in 1964.

NEMIROVSKAYA, V.N.; KRUGLOVYKH, V.V.

Third coordinating conference on compiling lithopaleogeographical
maps of Siberia. Mat. po geol. i pol.iskop.Kras.kraia no.3:261-263
'62. (MIRA 17:2)

KRUGLUSHIN, H. YA.

LINDE, V.V., professor; KOKORIN, V.V.; KRUGLUSHIN, A.Ya.

Qualifications of an engineer technologist. Tekst.prom. 14 no.8:
11-13 Ag '54. (MIRA 7:10)

1. Direktor Vsesoyuznogo zaochnogo instituta tekstil'noy promyshlen-
nosti (for Kokorin).
(Textile industry)

KRUGLUSHIN, A. L. a

Commission of the factory committee gives help to innovators. Sov.
profsoiuzy 3 no.8:49-50 Ag'55. (MLRA 8:10)

(Riga--Textile industry)

KRUGLUSHIN, A.Ya.

Standardization of the means of mechanization. Tekst. prem. 19
no. 6:78 Je '59. (MIRA 12:9)

1. Chlen Nauchno-tekhnicheskogo otdela legkoy promyshlennosti.
(Textile industry--Equipment and supplies)

L 44305-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6019841

SOURCE CODE: UR/0370/66/000/001/0190/0192

AUTHOR: Amonenko, V. M. (Khar'kov); Kruglykh, A. A. (Khar'kov); Pavlov, V. S. (Khar'kov); Tikhinskiy, G. F. (Khar'kov)

ORG: none

TITLE: Evaporation rate of beryllium during dissociation of cerium beryllide 27 57 B

SOURCE: AN SSSR. Izvestiya. Metally, no. 1, 1966, 190-192

TOPIC TAGS: beryllium, vacuum sublimation, cerium compound, vapor pressure

ABSTRACT: The article presents the results of an investigation of the evaporation rate of Be during the thermal dissociation of the intermetallic compound CeBe_{13} , as well as of the effect of the addition of a small amount (0.4 wt. %) of Ce on the evaporability of Be. CeBe_{13} was obtained by the vacuum heating of a stoichiometric mixture of the powders of Ce and Be at 1150°C for 3 hr, while the Be-0.4% Ce alloy was obtained by direct vacuum melting of the metals. The sublimation rates of the Be-0.4% Ce alloy and of the products of dissociation of CeBe_{13} were determined by the method of evaporation from a cylindrical tantalum crucible with a residual gas pressure of $\leq 2 \cdot 10^{-6}$ mm Hg in the vacuum chamber. The temperature was measured with

Card 1/3

UDC: 669.725.4

ACC NR: AP6019841

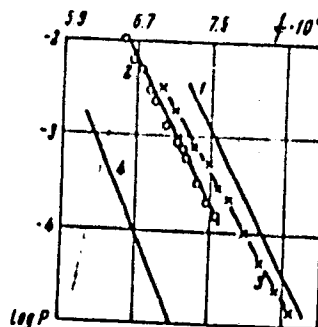
the aid of an optical pyrometer correct to $\pm 5\%$. Weighing of the crucibles was carried out correct to ± 0.0001 g by the continuous method on scales without violating the vacuum. The sublimation rate of Be with 0.4% Ce was measured in the temperature range 920-1160°C; for this temperature range the saturated vapor pressure of Be over the Be-0.4% Ce alloy is described by the equation: $\log P = 9.35 - 17,000/T$. As for the sublimation rates of the components of the intermetallic compound CeBe_{13} , during its thermal dissociation in the temperature range 1050-1250°C, the roentgenograms of the condensates gathered following evaporation of the compound at 1100 and 1250°C lack the lines of Ce and CeBe_{13} ; therefore, appreciable dissociation occurs above 1050°C and the entire sublimated matter may be referred to Be. The saturated vapor pressure of Be over the CeBe_{13} compound during the latter's thermal dissociation may be described by the equation: $\log P = 10.475 - 18,990/T$. The findings were utilized to plot curves of the saturated vapor pressure of the compounds and their components (Fig. 1). Orig. art. has: 1 figures, 2 tables, 2 formulas.

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• ACC NR: AP6019841

Fig. 1. Vapor pressure (P , mm Hg) of Be as a function of temperature for:

- 1 - pure Be; 2 - over the compound CeBe_{13} during its thermal dissociation;
- 3 - over the alloy Be-0.4% Co; 4 - pure Ce



SUB CODE: //, 13, 20 SUBM DATE: 25Jul64/ ORIG REF: 006/ OTH REF: 001

Card 3/3 OLR

L 44078-66 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP6030804 SOURCE CODE: UR/0185/66/011/009/1023/1025

AUTHOR: Amonenko, V. M.; Pavlov, V. S.; Kruglykh, A. A.

ORG: Physicotechnical Institute, Academy of Sciences UkrSSR, Kharkov (Fizyko-
tekhnichnyy instytut, AN UkrSSR)

TITLE: Refining lanthanum by combined zone melting and electrotransfer process

SOURCE: Ukrayins'kyi fizychnyy zhurnal, v. 11, no. 9, 1966, 1023-1025

TOPIC TAGS: ~~lanthanum refining~~, lanthanum zone refining, ~~lanthanum electrotransfer~~
~~refining~~ *electron beam melting*

ABSTRACT: The feasibility of refining lanthanum by combined zone melting and electrotransfer process has been investigated. Specimens, 8 mm in diameter x 120 mm long, were prepared from 99.5%-pure lanthanum melted in a vacuum of $3 \cdot 10^{-6}$ mm Hg. The specimens were subjected to zone refining in vacuum with electron-beam heating. Simultaneously, direct current with a density of 4.4 a/mm^2 was passed through the specimens for 70 or 180 hr, depending on the number of passes (5 or 10). It was found that the utmost purification was achieved with 5 passes, after which the impurities content was reduced as follows: oxygen from 0.080% to 0.032%, nitrogen from 0.0047% to 0.0040%, hydrogen from 0.0013% to an undetectable quantity, and carbon from 0.14% to 0.080%. The microhardness dropped from 50 to 30 kg/mm². Orig. art. has: 3 figures and 1 table.

SUB CODE: 11, 13/ SUBM DATE: 20Dec65/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS:
Card 1/1 *gd* 5077 [TD]

KRUGLYAK, B., inzhener.

Improvement in the manufacture of elevator pits. Muk.-elev.
prom. 23 no.2:29 F '57. (MLRA 10:5)

1. Ivanteyevskiy stroitel'nyy kombinat.
(Grain elevators)

KHODZHAYEV, K.Kh.; KRUGLYAK, B.A.

New machines for unloading cement from railroad cars. Zhel.
dor.transp. 43 no.4:70-73 Ap '61. (MIRA 14:3)

1. Nachal'nik gruzovoy sluzhby Tashkentskoy dorogi (for Khodzhayev).
2. Starshiy inzhener sluzhby Tashkentskoy dorogi.
(Cement--Transportation) (Loading and unloading)

KRUGLYAK, G.; SHAMRO, V.

More attention should be given to the mechanization of labor-consuming processes in technical maintenance work. Avt.transp. 32 no.9:14-15
S '54. (MLBA 7:11)

1. Avtobaza No. 1 Moskovskogo metrostroya.
(Automobiles--Maintenance)

KRUGLYAK, G.; SHAMRO, V.

Using the unit method of repairing automobiles in automobile
transport organisations. Avt. transp. 33 no.5:19-20 Ky '55.
(Motor trucks--Repairing) (MIRA 8:8)

KUZNETSOV, Ye.; KRUGLYAK, G.

Using new TO-1 maintenance regulations. Avt. transp. 36 no.8:14-16
Ag '58. (MIRA 11:9)
(Automobiles--Maintenance and repair)

KRUGLYAK, G.; KUZNETSOV, Ye.; PLESHAKOVA, T.

Using niger oil in lubricating motortruck chassis. Avt.
transp. 37 no.11:26-27 N '59. (MIRA 13:2)
(Motortrucks--Lubrication)

KRUGLYAK, I., zootekhnik

Beef and dairy farms in the U.S.A. Nauka i pered. op v
sel'khoz 9 no.5:75-78 My '59. (MIRA 12:8)
(United States--Dairying) (United States--Beef cattle)

KRUOLYAK, I.I.

Visiting with an English farmer. Nauka i shizn' 23 no.2:54-56
F '56. (MLRA 9:5)

1. Chlen kollegii Ministerstva sovkhozov SSSR.
(Great Britain--Agriculture)

KRUGLYAK, I., inzhener.

Freezing of capillary pipes in home compressor iceboxes. Khol.tekh.
32 no.3:59-61 J1 - S '55. (MIRA 9:1)
(Refrigerators and refrigerating machinery) (Pipe-fittings--Ammonia)

KRUGLYAK, I., inzhener.

Temperature control device and temperature range in ZIS-MOSKVA
electric refrigerators. Khel.tekh. 32 no.4:53-55 O-D '55.
(Refrigeration and refrigerating machinery) (MIRA 9:4)

KRUOLYAK, I., inzhener.

Detecting faulty performance in the electrical equipment of a refrigerator "ZIS-Moskva". Khol.tekh.33 no.1:70-72 Ja Mr '56.
(Refrigeration and refrigerating machinery) (MIRA 9:7)

AUTHOR: Kruglyak, I., Engineer.

66-1-21/26

TITLE: Re-filling of sealed refrigeration units during repairs,
(Zapolneniye germeticheskikh kholodil'nykh agregatov
pri remonte).

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering),
1957, No.1, pp.69-71 (U.S.S.R.)

ABSTRACT: Detailed information is given on the process of re-
filling the units of domestic refrigerators with the cooling
agent of 100 to 250 kcal/hr capacity after repair, giving
data relating to several models of Russian built refrigerators.
There are three figures.

AVAILABLE:

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KRUGLYAK, L., inzh.

New modifications of the "ZIL-Moskva" refrigerating unit. Khol. tekhn.
35 no.4:68-69 JI-Ag '58. (MIRA 11:10)
(Refrigeration and refrigerating machinery)

KRUOLYAK, I., inzh.

Connecting autotransformer into the thermoregulator circuit of the
"Zil-Moskva and "Dnepr" refrigerators. Khol.tekh. 35 no.5:59-60
S-O '58. (MIRA 11:11)
(Refrigerators) (Electric transformers)

KRUGLYAK, I., inzh.

How to equip "Zil-Moskva" and "Dnepr" refrigerators with key locking
devices. Khol.tekh. 35 no.5:60-61 S-O '58. (MIRA 11:11)
(Moscow--Refrigerators)

KRUGLYAK, Iosif Naumovich; SVIDERSKIY, Georgiy Danilovich; BERLIANT,
I.Ya., red.; ZAYTSEVA, L.A., tekhn.red.

[Maintenance and repair of refrigerators] Remont domashnikh
kholodil'nikov. Moskva, Vses.kooper.isd-vo, 1959. 238 p.
(MIRA 12:8)

(Refrigerators--Maintenance and repair)

14(1)

SOV/66-59-2-19/31

AUTHOR: Kruglyak, I., Engineer

TITLE: Adjustment of the Thermostat in Refrigerators "ZIL-Moskva" and "Dnepr" (Regulirovaniye termostata v kholodil'nikakh "ZIL-Moskva" i "Dnepr")

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 2, pp 61-62 (USSR)

ABSTRACT: The article describes the procedure of adjusting the thermostat on the refrigerators "Zil-Moskva" and "Dnepr" to the desired temperature of -7° to -8°C on the lower shelf of the evaporator. There is one schematic diagram.

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KRUGLYAK, Iosif Naumovich; FIL'CHENKOV, Nikolay Arsen'yevich; GOLOVCHENKO,
Konstantin Sergeyevich; LIKHAREVA, N.V., inzh., retsenzent; YEVSTAF'YE-
VA, N.P., red.; EL'KIND, V.D., tekhn. red.

[Compressor refrigerators for household use] Domashnie kompressionnye
kholodil'niki. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1961. 166 p. (MIRA 14:12)

(Refrigerators)

KRUGLYAK, I.N.; SVIDERSKIY, G.D.; SHELYUTTO, Ye.P., red.;
KHARITONOVA, L.I., tekhn. red.

[Repair of household refrigerators] Remont domashnikh kholo-
dil'nikov. Izd.2., perer. i dop. Moskva, Gosmestpromizdat,
1961. 279 p. (MIRA 15:12)
(Refrigerators—Maintenance and repair)

KRUGLYAK, I.N.

Temperature conditions of household refrigerator operations. Khol.
tekh. 38 no. 1:57-58 Ja-F '61. (MIRA 14:4)
(Refrigerators)

KRUGLYAK, I.N., inzh.

Performance of the electric motors of home refrigerators under
conditions of increased and reduced voltage. Khol.tekh. 39
no.2:45-48 Mr-Ap '62. (MIRA 15:4)
- (Refrigerators) (Electric motors--Testing)

KRUGLYAK, I.N.; FIL'CHENKOV, N.A.; GOLOVCHENKO, K.S.; VEYNBERG, B.S.,
kand. tekhn. nauk, retsenzent; KUBAREV, V.I., inzh., red.

[Domestic compressor-type refrigerators] Domashnie kompres-
sionnye kholodil'niki. Izd.2. Moskva, Izd-vo "Mashino-
stroenie," 1964. 206 p. (MIRA 17:8)

KRUGLYAK, I.S. [Kruhliak, I.S.], master po remontu gidrosistem

Pay more attention to the repair of hydraulic equipment.
Mekh. sil'. hosp. 12 no.12:14 D '61. (MIRA 17:1)

1. Tarashchanskoye rayonnoye otdeleniye "Sil'gosptekhniki".

KOTEL'NIKOV, V.K.; KHRISTOFOROV, D.G.; FREZEROV, G.V., prof.,
retsenzent; KRUGLYAK, L.A., inzh., red.; SEMENCHENKO,
V.A., red.izd-va; MAKAROVA, L.A., tekhn. red.

[Attachments for the manufacture of metal-cutting tools]
Prisposobleniia dlia proizvodstva rozhushchikh instrumentov.
Moskva, Mashgiz, 1963. 189 p. (MIRA 17:3)

KHUGLYAK, L.A.

Standard technical operations in machining stepped shafts. Stan.
1 instr. 27 no. 10:14-19 0 '56. (MLRA 9:12)
(Shafts and shafting)

AUTHOR: Kruglyak, L.A. 593

TITLE: Advanced Production Processes for the manufacture of Spur Gears.
(Peredovyye Tekhnologicheskiye Protsessy Obrabotki Tsilindricheskikh Zubchatykh Koles).

PERIODICAL: "Stanki i Instrument" (Machine Tools and Cutting Tools, No.3, 1957, pp.16-20. U.S.S.R.).

ABSTRACT: Soviet and foreign processes and machinery are compared at each stage of the production process. Among Soviet equipment, a special deburring and chamfering fixture is shown where a conical endmill follows the tooth contour at each wheel face. Investigations carried out by ZIL and the Machine Tool Plant Imeni S. Ordzhonikidze (Stankozavod Imeni S. Ordzhonikidze) have established that the shaving of gears made of case-hardened steel should be carried out after case-hardening and annealing. Class 2 precision can thus be obtained without grinding. A gear grinding machine, model 5832 (made by the "Komsomolets" Plant) operates by the generating method but has a worm shaped grinding wheel.

There are 7 references, including 1 Soviet.

There are 16 illustrations, including 6 photographs.

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ANTOSHIN, Ye V

FRASE I BOOK EXPLOITATION

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Appendix submachine maintenance (book for mechanics of machine-building plants in the volume, Vol. 2, Technology of Repair Operations) Moscow, Mashin, 1976. VI, 1979 p. 40,000 copies printed.

Rep. M.I. Tsyd, Engineer, Moscow; M.I. K.O. Tsyd, Engineer, Tula, M.I. T.S. Shchegolev, M.I. of Sci. T.S. Borov, Engineer, A.P. Vladimirov, Engineer of Technical Sciences, and R.A. Kozlov, Candidate of Technical Sciences; Moscow M. for Reference Literature (MashLit); V.I. Kozlov, Engineer.

NOTE: This handbook is intended for personnel responsible for repair and maintenance operations in a machine-manufacturing plant.

CONTENTS: The handbook contains information pertinent to the organization of repair and maintenance operations, design properties of machine-building plants participating in preparation of this volume is included in the average of volume 1 (007/1579). There are no references. Basic topics covered include: maintenance and making of parts in maintenance operations; serial-sorting, testing, and pipe-fitting; finishing operations involved in maintenance work; making parts for precision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Best treatment and chemical best treatment of metals (Engineer, M.I. Candidate of Technical Sciences)

Best treatment of steel

Chemical best treatment

Best treatment of cast-iron parts

Best treatment of heat-treated and chemical-best treatment

Some methods of qualitative analysis

Survivability of parts during best treatment

Example of planning of equipment for a best-treatment shop

Precision and surface quality in sanding (Engineer, A.S.,

Engineer of Technical Sciences)

Precision and finish of surfaces of various articles of sanding

Effect of wear and design of guides on the precision of sanding tools

Tools for the sanding of metals (Engineer, A.S., Engineer)

Optics

Wells

Compendium

Summary

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ANTOSHIN, Ye V

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PLANE I MORE INFORMATION

207/1503

Spetsializirovannaya tekhnicheskaya literatura v drevnykh tomakh.
 1. 2. Tekhnicheskaya literatura (Handbook for Mechanism of Machine-Building
 Plants in Two Volumes. Vol. 2. Technology of Repair Operations) Moscow,
 Izdatel'stvo, 1958. VII, 1979 p. 65,000 copies printed.

3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 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824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000. 1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028. 1029. 1030. 1031. 1032. 1033. 1034. 1035. 1036. 1037. 1038. 1039. 1040. 1041. 1042. 1043. 1044. 1045. 1046. 1047. 1048. 1049. 1050. 1051. 1052. 1053. 1054. 1055. 1056. 1057. 1058. 1059. 1060. 1061. 1062. 1063. 1064. 1065. 1066. 1067. 1068. 1069. 1070. 1071. 1072. 1073. 1074. 1075. 1076. 1077. 1078. 1079. 1080. 1081. 1082. 1083. 1084. 1085. 1086. 1087. 1088. 1089. 1090. 1091. 1092. 1093. 1094. 1095. 1096. 1097. 1098. 1099. 1100. 1101. 1102. 1103. 1104. 1105. 1106. 1107. 1108. 1109. 1110. 1111. 1112. 1113. 1114. 1115. 1116. 1117. 1118. 1119. 1120. 1121. 1122. 1123. 1124. 1125. 1126. 1127. 1128. 1129. 1130. 1131. 1132. 1133. 1134. 1135. 1136. 1137. 1138. 1139. 1140. 1141. 1142. 1143. 1144. 1145. 1146. 1147. 1148. 1149. 1150. 1151. 1152. 1153. 1154. 1155. 1156. 1157. 1158. 1159. 1160. 1161. 1162. 1163. 1164. 1165. 1166. 1167. 1168. 1169. 1170. 1171. 1172. 1173. 1174. 1175. 1176. 1177. 1178. 1179. 1180. 1181. 1182. 1183. 1184. 1185. 1186. 1187. 1188. 1189. 1190. 1191. 1192. 1193. 1194. 1195. 1196. 1197. 1198. 1199. 1200. 1201. 1202. 1203. 1204. 1205. 1206. 1207. 1208. 1209. 1210. 1211. 1212. 1213. 1214. 1215. 1216. 1217. 1218. 1219. 1220. 1221. 1222. 1223. 1224. 1225. 1226. 1227. 1228. 1229. 1230. 1231. 1232. 1233. 1234. 1235. 1236. 1237. 1238. 1239. 1240. 1241. 1242. 1243. 1244. 1245. 1246. 1247. 1248. 1249. 1250. 1251. 1252. 1253. 1254. 1255. 1256. 1257. 1258. 1259. 1260. 1261. 1262. 1263. 1264. 1265. 1266. 1267. 1268. 1269. 1270. 1271. 1272. 1273. 1274. 1275. 1276. 1277. 1278. 1279. 1280. 1281. 1282. 1283. 1284. 1285. 1286. 1287. 1288. 1289. 1290. 1291. 1292. 1293. 1294. 1295. 1296. 1297. 1298. 1299. 1300. 1301. 1302. 1303. 1304. 1305. 1306. 1307. 1308. 1309. 1310. 1311. 1312. 1313. 1314. 1315. 1316. 1317. 1318. 1319. 1320. 1321. 1322. 1323. 1324. 1325. 1326. 1327. 1328. 1329. 1330. 1331. 1332. 1333. 1334. 1335. 1336. 1337. 1338. 1339. 1340. 1341. 1342. 1343. 1344. 1345. 1346. 1347. 1348. 1349. 1350. 1351. 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